

Session 4

By

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A close-up, vertical view of a server rack. Several green indicator lights are visible, glowing brightly against the dark blue and black background of the server units. The lights are arranged in a vertical column, with some appearing slightly out of focus in the foreground and background, creating a sense of depth.

Agenda

- ☐ Switch case
- ☐ Question based on switch case
- ☐ Logical operator
- ☐ About array
- ☐ Advantage of array
- ☐ Disadvantage of array
- ☐ Some basic questions based on array



Switch case

```
switch(expression){  
  case value1:  
    //code to be executed;  
    break; //optional  
  case value2:  
    //code to be executed;  
    break; //optional  
  .....  
  
  default:  
    code to  
    be executed if all cases are not matched;  
}
```

Logical Operator



Types of Logical Operator

There are three logical operators in Java :

- && (Logical AND)
- || (Logical OR)
- ! (Logical NOT)



What is *Array*?

An abstract digital cityscape rendered in shades of blue and green. Several 3D cubes are scattered across the scene, some of which are hollow and glow from within. The surfaces of the cubes and the background are covered in a dense pattern of binary code (0s and 1s). Several thin, glowing lines in red, green, and blue extend from the cubes, suggesting data flow or connections. The overall effect is a futuristic, high-tech environment.

Advantage of Array

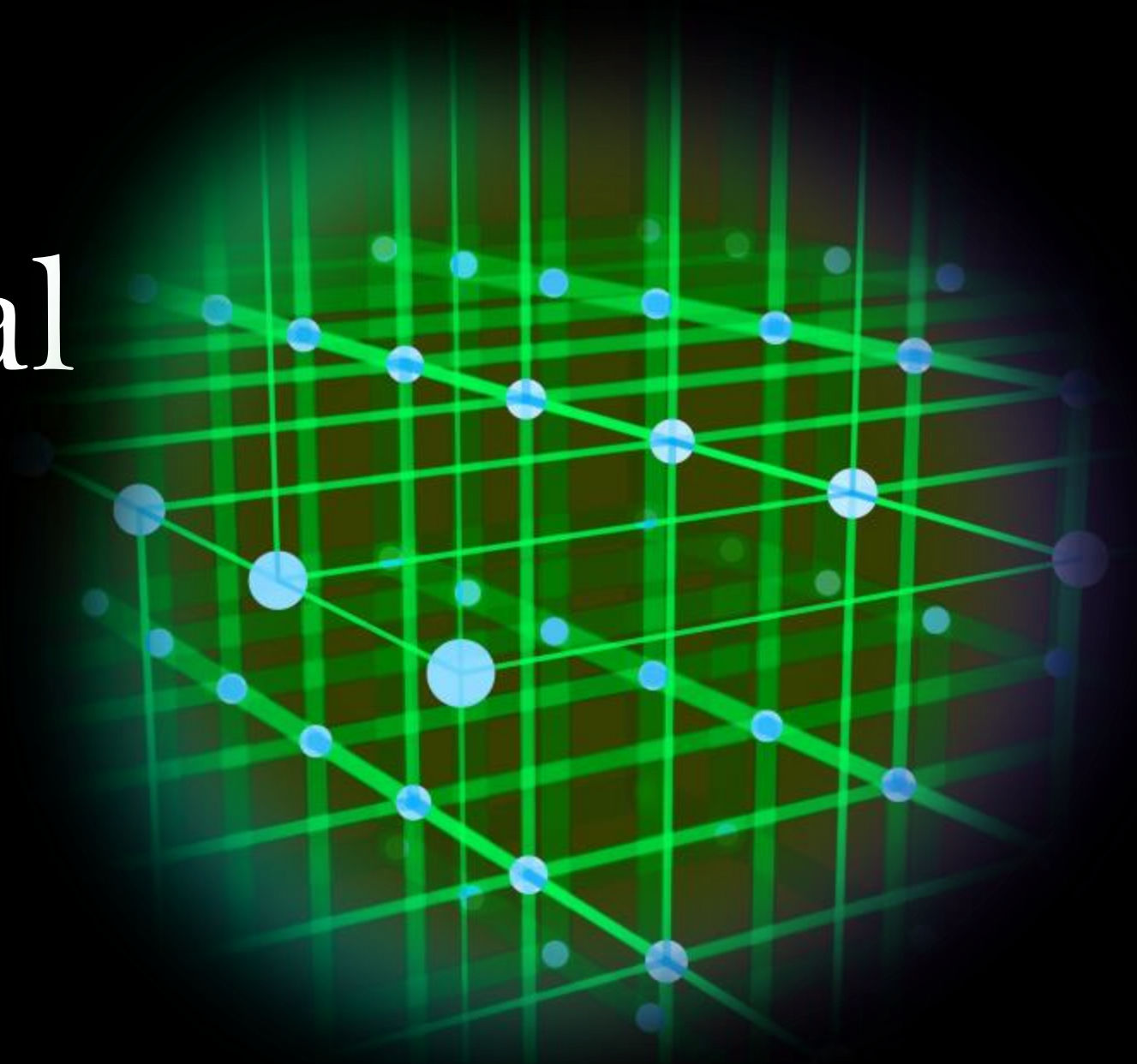
- Accessing elements randomly
- Localizing cache
- Managing memory
- Providing a single name for multiple variables
- Organizing data elements
- Performing matrix operations
- Implementing other data structures

Disadvantage of Array

- Inflexible data values
- Insertion and deletion challenges

Types of Array

Single Dimensional Array





Multi Dimensional Array